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Rowland, Goodman,
Charlier, Light & Lui

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Microservice Architecture

Nadareishvili, Mitra, McLarty & Amundsen

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Building Maintainable Software

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AFFECTIVE COMPUTING

Rosalind W. Picard

The latest scientific findings indicate that emotions play an essential role in decision making, perception, learning, and more—that is, they influence the very mechanisms of rational thinking. Not only too much, but too little emotion can impair decision making. According to Rosalind Picard, if we want computers to be genuinely intelligent and to interact naturally with us, we must give computers the ability to recognize, understand, even to have and express emotions.

Part 1 of this book provides the intellectual framework for affective computing. It includes background on human emotions, requirements for emotionally intelligent computers, applications of affective computing, and moral and social questions raised by the technology. Part 2 discusses the design and construction of affective computers. Although this material is more technical than that in part 1, the author has kept it less technical than typical scientific publications in order to make it accessible to newcomers. Topics in part 2 include signal-based representations of emotions, human affect recognition as a pattern recognition and learning problem, recent and ongoing efforts to build models of emotion for synthesizing emotions in computers, and the new application area of affective wearable computers.

Rosalind W. Picard is Associate Professor of Media Arts and Sciences at the MIT Media Laboratory.

"Compelling. . . Picard convincingly demonstrates that computers can also be designed to think about feelings and how to rationally act in light of them. . . A groundbreaking preface to a plausible direction in computer design."

—Norman Weinstein, *Technology Review*

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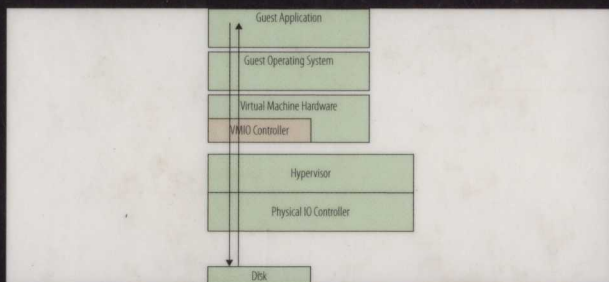


Learn Virtualization Quick

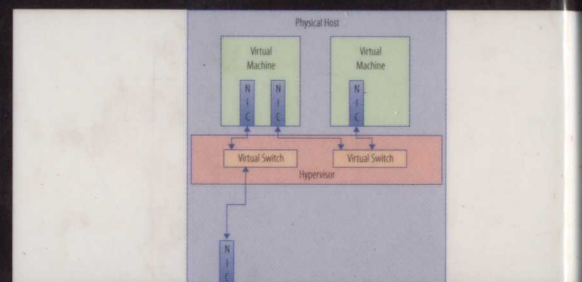
More and more companies are leveraging virtualization, so it is critical that IT professionals have the latest knowledge and skill needed to work with virtualization-centric infrastructures. You'll acquire that knowledge as you work through this book and build your own virtual machine. Clear, straightforward instruction explains what virtualization is and how it works. Then you'll learn to set up the CPU, memory, storage, networking, and more. Each chapter focuses on a specific goal, enabling you to build a solid foundation in this career-essential discipline.

Learn these virtualization essentials—and more:

- How virtualization software operates within a computer environment
- The difference between Type 1 and Type 2 hypervisors
- How cloud computing leverages virtualization
- Installing Windows or Linux on virtual machines
- Managing CPUs, memory, storage, and networking
- Configuring supporting devices for a virtual machine
- Availability and technologies that protect individual virtual machines, virtualization servers, and entire datacenters
- Methodology and practices for deploying applications in virtual environment.



Data request in a virtual environment



A simple virtual network

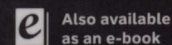
This striking *Essentials* book features:

- Chapter-opening learning objectives
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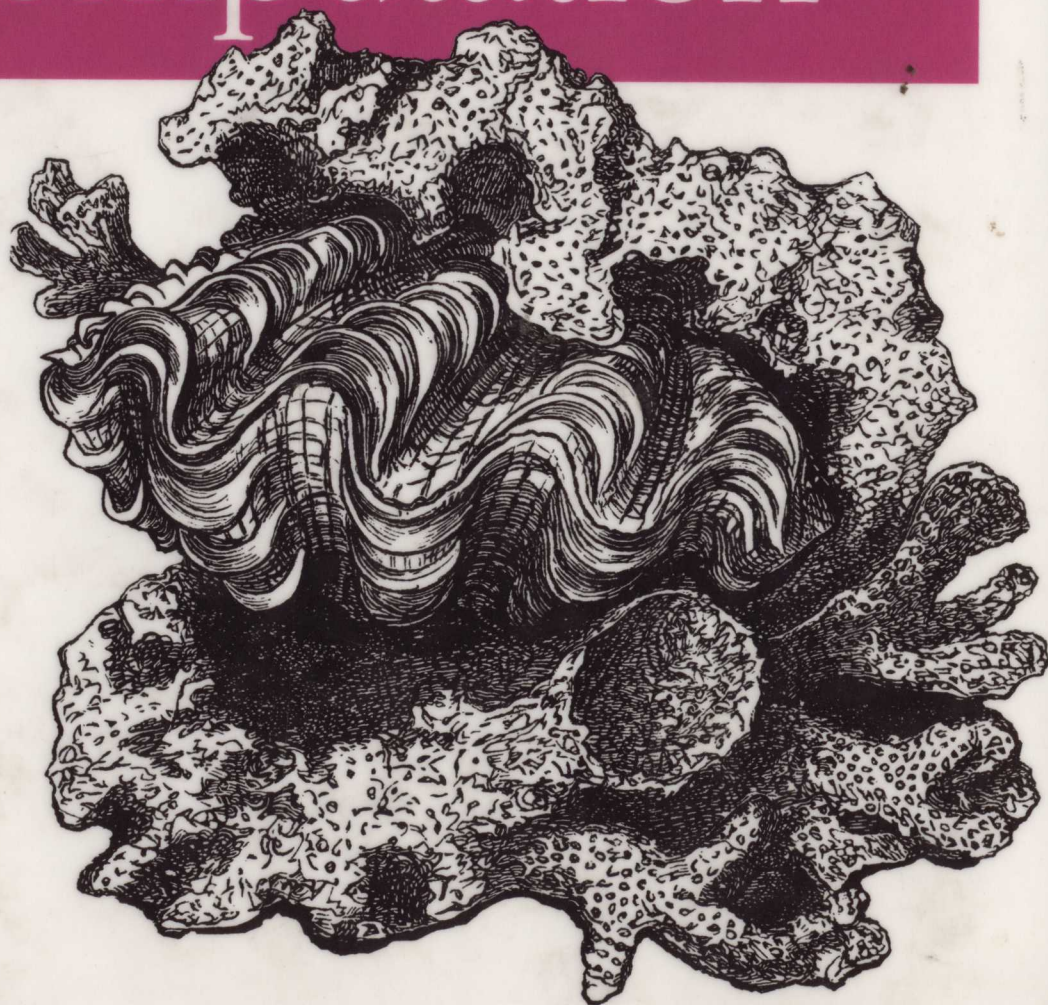
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From Simple Machines to Impossible Programs

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Understanding Computation



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Understanding Computation

Finally, you can learn computation theory and programming language design in an engaging, practical way. *Understanding Computation* explains theoretical computer science in a context you'll recognize, helping you appreciate why these ideas matter and how they can inform your day-to-day programming.

Rather than use mathematical notation or an unfamiliar academic programming language like Haskell or Lisp, this book uses Ruby in a reductionist manner to present formal semantics, automata theory, and functional programming with the lambda calculus. It's ideal for programmers versed in modern languages, with little or no formal training in computer science.

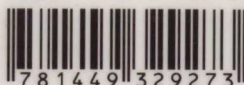
- Understand fundamental computing concepts, such as Turing completeness in languages
- Discover how programs use dynamic semantics to communicate ideas to machines
- Explore what a computer can do when reduced to its bare essentials
- Learn how universal Turing machines led to today's general-purpose computers
- Perform complex calculations, using simple languages and cellular automata
- Determine which programming language features are essential for computation
- Examine how halting and self-referencing make some computing problems unsolvable
- Analyze programs by using abstract interpretation and type systems

Tom Stuart, a computer scientist and programmer, is the founder of Codon, a digital product consultancy in London. He works as a consultant, mentor, and trainer, helping companies to improve the quality and clarity of their approach to creating software products.

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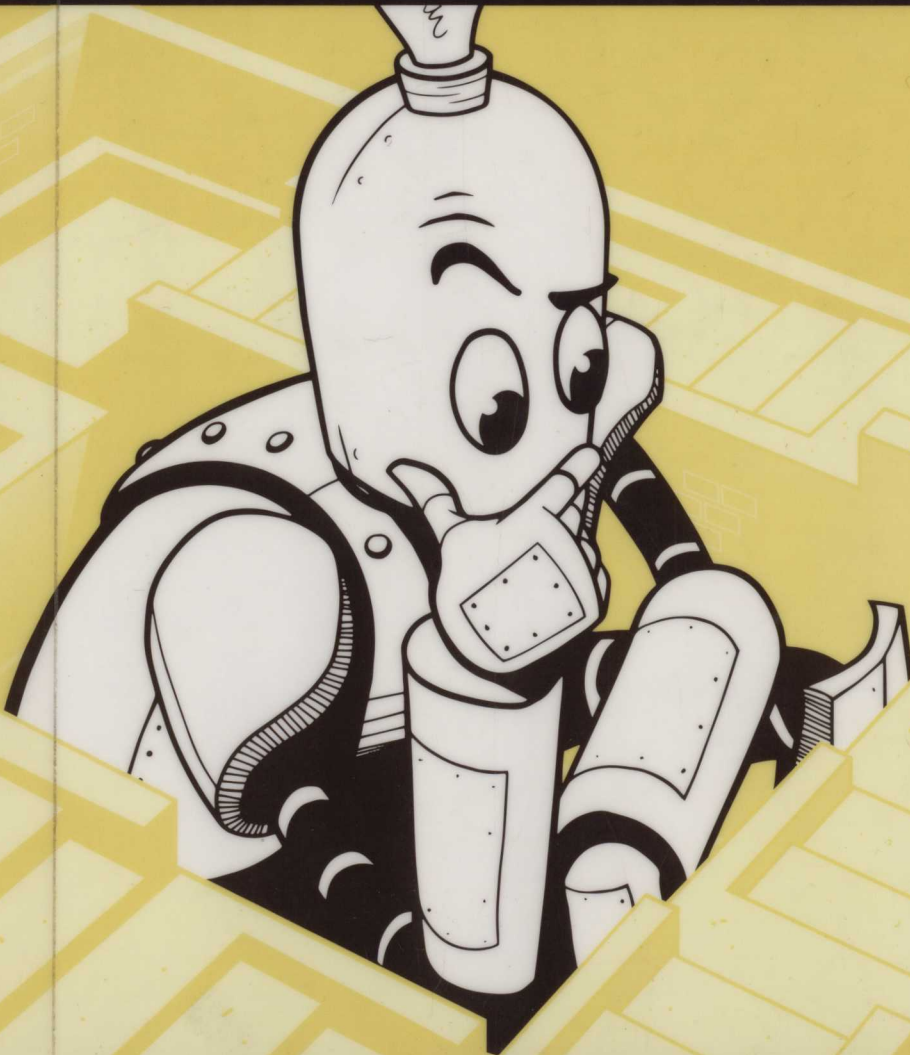
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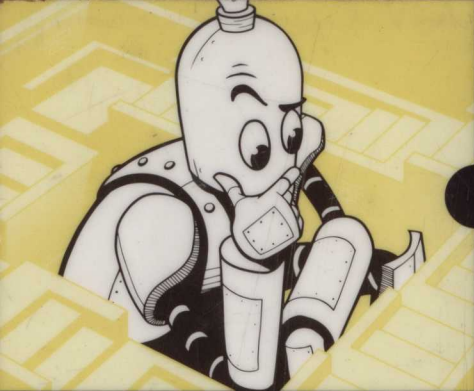
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ALGORITHMIC THINKING

LEARN ALGORITHMS TO
LEVEL UP YOUR CODING SKILLS

DANIEL ZINGARO





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Algorithmic Thinking is the complete package, providing the solid foundation you need to elevate your coding skills to the next level.

NEW: This edition adds chapters on dynamic programming and randomization algorithms, additional practical problems, and enhanced explanations.

ABOUT THE AUTHOR

Dr. Daniel Zingaro is an award-winning associate professor of mathematical and computational sciences at the University of Toronto Mississauga. He is well known for his uniquely interactive approach to teaching and internationally recognized for his expertise in active learning. He is also the author of *Learn to Code by Solving Problems* (No Starch Press) and co-author of *Learn AI-Assisted Python Programming*.



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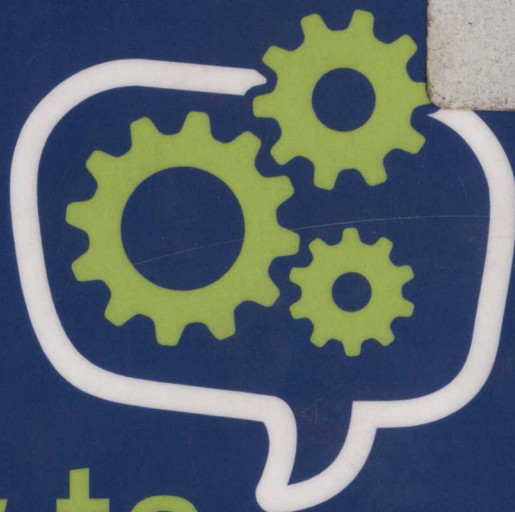
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"Finally, a book non-techies can use to understand the technologies that are changing our lives." **Paul Bottino**, Executive Director, Technology and Entrepreneurship Center, Harvard University



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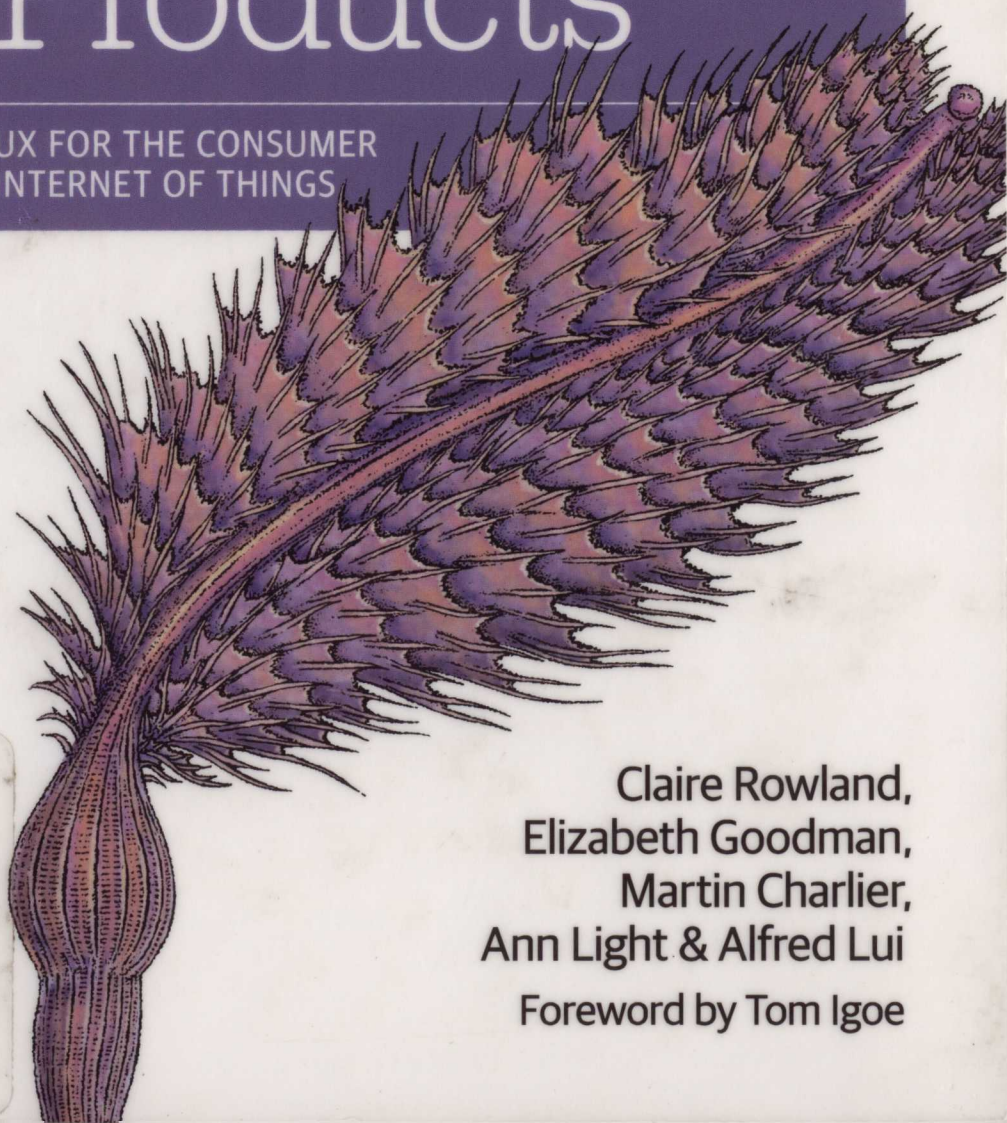
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Designing Connected Products

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INTERNET OF THINGS



Claire Rowland,
Elizabeth Goodman,
Martin Charlier,
Ann Light & Alfred Lui
Foreword by Tom Igoe



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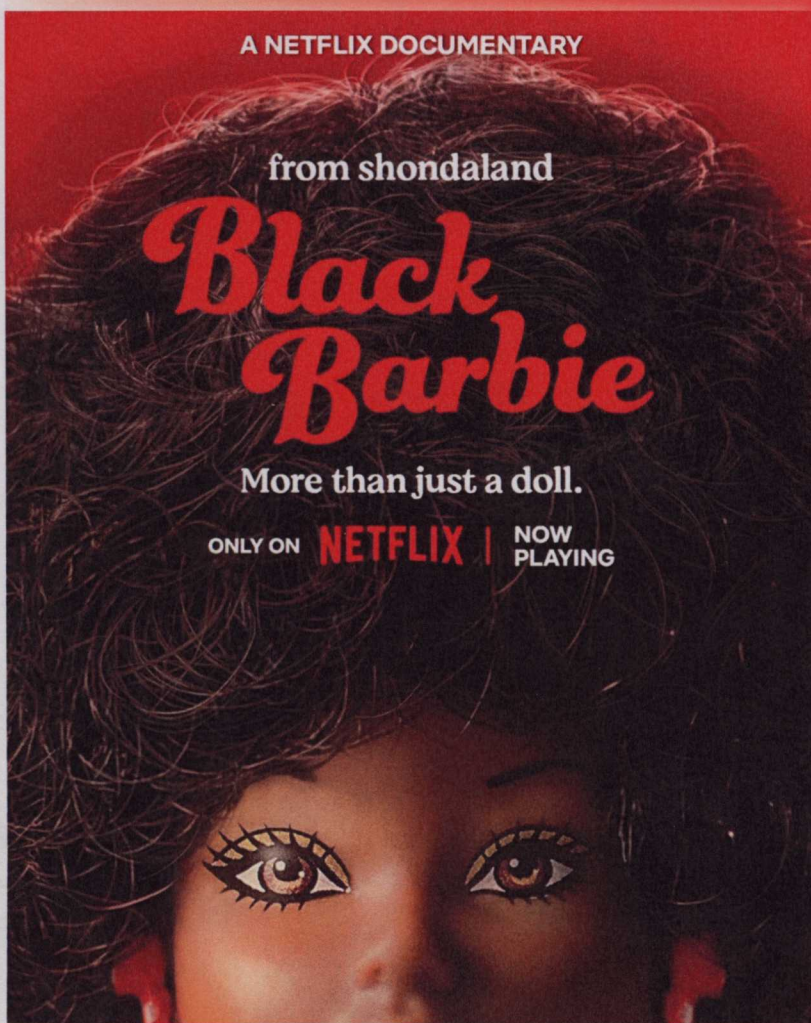
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Discover the untold story of the first Black Barbie and the pivotal role three trailblazing women at Mattel had in creating a doll who looked like them.

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